National Public Safety Broadband Network and the Arizona 2012 SCIP Update

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Public Safety Interoperable Communications Office

Outline



- Overview of the National Public Safety Broadband Network
 - Key components of H.R. 3630
 - Why is broadband for public safety important?
 - Timeline
 - Funding
 - Fees, Public/Private Partnerships and Shared Assets
- Arizona's Involvement
 - -State's role
 - The Arizona Public Safety Broadband Network (AZPSBN) Plan
 - AZPSBN and the SCIP
- Recommended Resources



OVERVIEW OF THE NATIONAL PUBLIC SAFETY BROADBAND NETWORK (NPSBN)

National Public Safety Broadband Network

On February 22, 2012, H.R. 3630 was signed into law. Key features of the legislation include:



- Allocates the "D-Block" spectrum to Public Safety
- Forms First Responder Network Authority (FirstNet)
 - Responsible for build out and maintenance of the NPSBN
 - Responsible for working with local jurisdictions to define boundaries,
 roles and responsibilities
- Authorizes auction of reclaimed radio/TV frequency with funding going toward the NPSBN build-out, related programs and deficit reduction

Why is broadband for public safety important?

- Broadband enables:
 - A singular national network which is interoperable by default
 - Data capability for jurisdictions which haven't had any
- Currently, Broadband does not enable:
 - Public Safety level voice (signal loss, distance)
 - Remote to remote direct capability

IMPORTANT: Not currently a replacement for microwave or Land Mobile Radio (voice) systems; Only useful as a data network.



HR 3630 Timeline

- •FCC Public Safety Interoperability Board (PSIB)
 - -Group formed by 3/22/2012 (30 days) completed on schedule
 - -Network Plan and minimum interoperability requirements completed by 5/22/2012 (90 days) FCC to approve by 6/22/2012

FirstNet

- -Group formed by 8/22/2012 (180 days)
- After 8/22/2012 FirstNet will develop individual state RFPs based on Network Plan developed by PSIB
- -RFPs delivered to each state (date NOT specified but ~18 months)

States

- Opt-in/Opt-out decision by Governors (90 days after receipt of RFP)
- Opt-in FirstNet builds and maintains the Radio Access Network
- Opt-out State builds and maintains the Radio Access Network

Funding

- \$135M for State and Local Implementation Grant Program Guidelines NOT yet established August 22, 2012
 - For State, regional, Tribal and local jurisdictions to identify, plan and implement the NPSBN with regards to coverage, siting, and other needs
 - 20 percent match required, unless waived by the National Telecommunications and Information Administration (NTIA)
 - These grants must be coordinated through a single, state-certified officer or governmental body (PSIC)
- \$300 million to the National Institute of Standards and Technology (NIST) Public Safety Communications Research (PSCR) Program for research and development
- \$7B for the Network Construction Fund
 - FirstNet can borrow up to \$2B upfront with the remainder coming from frequency auctions
 - Unclear how much will be available to states



Fees

- The NPSBN will be permitted to generate revenues.
- The total amount of fees collected may not exceed the amount necessary to cover the cost of maintaining the network. This applies to FirstNet (Opt-in) or the State (Opt-out).
- The network operator (FirstNet or the State) is authorized to assess and collect:
 - Network user subscription fees to construct, manage and operate the network
 - Fees resulting from public/private partnerships (spectrum)
 - Backhaul services fees
 - Equipment access fees from entities for access to, or use of, any owned by the network owner (towers, backhaul conduit, etc.)

Shared Assets

- Although it is speculation at this point, it would seem reasonable that the shared use of State and Local infrastructure assets could be used as an "in kind" negotiation chip for either greater coverage or reduced network fees.
- This may present valuable opportunities in the way of funding network infrastructure and maintenance support, however, there will be constraints as FirstNet works through the issues of:
 - Who can be on the network (specifically the wireless D-block spectrum)
 - Policies and standards surrounding dynamic and preemptive priority
 - What forms of public/private partnerships are acceptable

Discussion



Questions about the National Public Safety Broadband Network or H.R. 3630?



THE ARIZONA PUBLIC SAFETY BROADBAND NETWORK PLAN

Arizona's Role

- Identify a single agency to work with FirstNet/NTIA
 - The Public Safety Interoperable Communication Office (PSIC) ✓



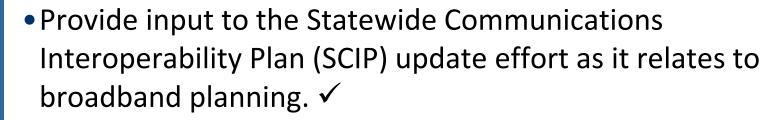
- Technical Inventory, Implementation, Coverage, etc. ✓
- Governance Fee-based, Policies, Standards & Procedures, etc. ✓
- Develop a plan for the best use of the State and Local Implementation Grant Program
- Work with FirstNet to evaluate Arizona's needs for coverage and integration into the NPSBN, while being creative with infrastructure sharing and possible public/private partnerships



AZPSBN Project Plan (1 of 2)

- Track NPSBN progress, in particular:
 - The Interoperability Board's minimum technical requirements for the NPSBN
 - First Net's progress on RAN planning
 - Input/decisions from agencies such as the FCC, NTIA, DHS, OEC, etc.
- Work with the Arizona Public Safety community to advise the PSCC regarding State-wide standards for interoperability on the NPSBN.
- Work with the Arizona Public Safety community to plan how Arizona will interact with the NPSBN.
- Advise the PSIC Office on preparing a grant request under the State and Local Implementation Grant Program.

AZPSBN Project Plan (2 of 2)





- Plan and prepare for the FirstNet RFP proposal by recommending minimum criteria based on Arizona's public safety needs.
- Perform the research and analysis required to provide substantive input on the Opt-In/Opt-Out decision.
- Work with the Digital Arizona project and 9-1-1 programs to assure integration and to identify synergies.
- Report back to the PSCC on progress and key recommendations.

NPSBN Influences on Interoperable Communications in Arizona

- Statewide System in a System of Systems State
- Infrastructure sharing policies, standards and procedures (PSPs)
- User setup priority and local control PSPs
 - User Priority which roles and responsibilities have priority
 - Application Priority e.g., if EMS needs video over Fire, etc.
 - Local Control which users/applications get priority during an incident
 - Policies will be particularly important when sharing spectrum with nonpublic safety entities (pre-emptive priority)
- Application Level Interoperability e.g., Apps Store
- Outreach and Training
 - Educate local jurisdictions on newly established guidance and SOPs
 - Support additional training for COMLs

Q&A



Discussion; Questions?

Thank You!

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Recommended Resources (1 of 2)

April 17 PSCC Meeting

Presentation: H.R. 3630 and the National Public Safety Broadband Network

Handout: Establishment of the Arizona Public Safety Broadband Network (AzPSBN) Workgroup

Handout: NCSWIC Broadband Memo: Nationwide Public Safety Broadband Network (NPSBN) - The SWIC Role

Handout: <u>Arkansas SWIC Rubow: NPSBN - Governor's Actions</u>
Handout: <u>National Public Safety Broadband Network Acronym List</u>

Broadband: http://www.azpsic.gov/library/broadband/

Urgent Communications Webinar:

- Anna Gomez: Deputy Assistant Secretary, NTIA
- Next Generation Communications: What Does It Mean To You?
- Summary of H.R. 3630
 - Chris Essid: Director, Office of Emergency Communications
 - <u>Summary of the Nationwide Public Safety Broadband Network (NPSBN)</u>
 <u>Legislation</u>
- NCSWICS memo: The SWIC's role in the NPSBN (see handout)
 - Mark Grubb: Chair National Council of SWICs (NCSWIC)



Recommended Resources (2 of 2)

- The Governors role in the NPSBN (see handout)
 - Penny Rubow: Arkansas SWIC, reviewed by the NCSWIC Executive
 Committee



- Andy Seybold: Vice-Chairman, APCO Broadband Committee
- -Broadband 101
- National Public Safety Telecommunications Council (NPSTC)
 Website planned launch April 16, 2012
 - Clearing house for all things Public Safety Broadband
 - Public Safety Broadband Directory

